



PATENT
Attorney Docket No. 9319I-000277

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No.: 09/945,241
Filing Date: August 31, 2002
Applicant: Fumiaki Matsushima et al.
Group Art Unit: 2812
Examiner: Ha T. Nguyen
Title: METHOD FOR FORMING A BUMP, SEMICONDUCTOR
DEVICE AND METHOD OF FABRICATING SAME
SEMICONDUCTOR CHIP, CIRCUIT BOARD, AND
ELECTRONIC INSTRUMENT
Attorney Docket: 9319I-000277

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Director of the United States Patent and Trademark Office
P.O. Box 1450
Alexandria, VA 22313-1450

AMENDMENT

Sir:

In response to the Office Action mailed March 13, 2003, please amend the application as follows and consider the remarks set forth below.

Amendments to the Claims begin on page 2 of this paper.

06/30/2003 DBROWN 00000003 080750 09945241

Remarks begin on page 12 of this paper.

01 FC:1201 168.00 DA

06/18/2003 RMEBRAHT 00000094 09945241

01 FC:1201 168.00 DP
02 FC:1202 126.00 DP

2812
\$Please type a plus sign (+) inside this box → ☐**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

| | |
|------------------------|---------------------------|
| Applicati n Numb r | 09/945,241 |
| Filing Date | August 31, 2002 |
| First Named Invent r | Fumiaki Matsushima et al. |
| Group Art Unit | 2812 |
| Examiner Name | Ha T. Nguyen |
| Attorney Docket Number | 93191-000277 |

Total Number of Pages in This Submission

ENCLOSURES (check all that apply)

| | | |
|--|---|--|
| <input checked="" type="checkbox"/> Fee Transmittal Form <input checked="" type="checkbox"/> Fee Attached <input checked="" type="checkbox"/> Amendment / Response <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53 | <input type="checkbox"/> Assignment Papers (for an Application) <input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____ | <input type="checkbox"/> After Allowance Communication to Group <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to Group (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Receipt Postcard. |
|--|---|--|

Remarks

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TECHNOLOGY CENTER 2800**SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT**

| | | | |
|-------------------------|----------------------------------|--|---------------------------|
| Firm or Individual name | Harness, Dickey & Pierce, P.L.C. | Attorney Name G. Gregory Schivley Bryant E. Wade | Reg. No. 27,382/40,344 |
| Signature | | | |
| Date | June 13, 2003 | | |

CERTIFICATE OF MAILING/TRANSMISSION

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Director of the U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450, or facsimile transmitted to the U.S. Patent and Trademark Office on the date indicated below.

| | | | |
|-----------------------|------------------------------------|------|---------------|
| Typed or printed name | G. Gregory Schivley/Bryant E. Wade | | |
| Signature | | Date | June 13, 2003 |

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**FEE TRANSMITTAL
for FY 2003**

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27**TOTAL AMOUNT OF PAYMENT** (\$) 294**Complete if Known**

| | |
|----------------------|---------------------------|
| Application Number | 09/945,241 |
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| First Named Inventor | Fumiaki Matsushima et al. |
| Examiner Name | Ha T. Nguyen |
| Group / Art Unit | 2812 |
| Attorney Docket No. | 93191-000277 |

METHOD OF PAYMENT (check all that apply)
☒ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None
☐ Deposit Account:Deposit
Account
Number

08-0750

Deposit
Account
Name

Harness, Dickey & Pierce, P.L.C.

The Commissioner is authorized to: (check all that apply)
☐ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.
FEE CALCULATION**1. BASIC FILING FEE**

| Large Entity | | Small Entity | | Fee Description | Fee Paid |
|---------------------|----------|--------------|----------|------------------------|---------------|
| Fee Code | Fee (\$) | Fee Code | Fee (\$) | | |
| 1001 | 750 | 2001 | 375 | Utility filing fee | |
| 1002 | 330 | 2002 | 165 | Design filing fee | |
| 1003 | 520 | 2003 | 260 | Plant filing fee | |
| 1004 | 750 | 2004 | 375 | Reissue filing fee | |
| 1005 | 160 | 2005 | 80 | Provisional filing fee | |
| SUBTOTAL (1) | | | | | (\$ 0) |

2. EXTRA CLAIM FEES

| | | | | | | | | |
|--------------------|----|--------|---|---|---|----|---|-----|
| Total Claims | 36 | -29 ** | = | 7 | X | 18 | = | 126 |
| Independent Claims | 6 | -4 ** | = | 2 | X | 84 | = | 168 |
| Multiple Dependent | | | | | X | | = | 0 |

| Large Entity | | Small Entity | | Fee Description |
|---------------------|----------|--------------|----------|--|
| Fee Code | Fee (\$) | Fee Code | Fee (\$) | |
| 1202 | 18 | 2202 | 9 | Claims in excess of 20 |
| 1201 | 84 | 2201 | 42 | Independent claims in excess of 3 |
| 1203 | 280 | 2203 | 140 | Multiple dependent claim, if not paid |
| 1204 | 84 | 2204 | 42 | ** Reissue independent claims over original patent |
| 1205 | 18 | 2205 | 9 | ** Reissue claims in excess of 20 and over original patent |
| SUBTOTAL (2) | | | | (\$ 294) |

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

| Large Entity | | Small Entity | | Fee Description | Fee Paid |
|--------------|----------|--------------|----------|--|----------|
| Fee Code | Fee (\$) | Fee Code | Fee (\$) | | |
| 1051 | 130 | 2051 | 65 | Surcharge - late filing fee or oath | |
| 1052 | 50 | 2052 | 25 | Surcharge - late provisional filing fee or cover sheet. | |
| 1053 | 130 | 1053 | 130 | Non-English specification | |
| 1812 | 2,520 | 1812 | 2,520 | For filing a request for reexamination | |
| 1804 | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action | |
| 1805 | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action | |
| 1251 | 110 | 2251 | 55 | Extension for reply within first month | |
| 1252 | 410 | 2252 | 205 | Extension for reply within second month | |
| 1253 | 930 | 2253 | 465 | Extension for reply within third month | |
| 1254 | 1,450 | 2254 | 725 | Extension for reply within fourth month | |
| 1255 | 1,970 | 2255 | 985 | Extension for reply within fifth month | |
| 1401 | 320 | 2401 | 160 | Notice of Appeal | |
| 1402 | 320 | 2402 | 160 | Filing a brief in support of an appeal | |
| 1403 | 280 | 2403 | 140 | Request for oral hearing | |
| 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding | |
| 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable | |
| 1453 | 1,300 | 2453 | 650 | Petition to revive - unintentional | |
| 1501 | 1,300 | 2501 | 650 | Utility issue fee (or reissue) | |
| 1502 | 470 | 2502 | 235 | Design issue fee | |
| 1503 | 630 | 2503 | 315 | Plant issue fee | |
| 1460 | 130 | 1460 | 130 | Petitions to the Commissioner | |
| 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17 (q) | |
| 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt | |
| 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) | |
| 1809 | 750 | 2809 | 375 | Filing a submission after final rejection (37 CFR § 1.129(a)) | |
| 1810 | 750 | 2810 | 375 | For each additional invention to be examined (37 CFR § 1.129(b)) | |
| 1801 | 750 | 2801 | 375 | Request for Continued Examination (RCE) | |
| 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application | |

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 0)**SUBMITTED BY**

G. Gregory Schivley

Name (Print/Type)

Bryant E. Wade

Registration No. Attorney/Agent

27,382

40,344

Telephone

(248) 641-1600

Signature

Date

June 13, 2003

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